

Author Index

- Acar, S., S. Karadeniz, N. Tuğluoğlu, A.B. Selçuk and M. Kasap, Gaussian distribution of inhomogeneous barrier height in Ag/p-Si (1 0 0) Schottky barrier diodes 233 (2004) 373
- Ahn, S.H., J.H. Lee, H.G. Kim and J.G. Kim, A study on the quantitative determination of through-coating porosity in PVD-grown coatings 233 (2004) 105
- Akhavan, O., A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad, Single-crystalline growth of CoSi₂ by refractory-interlayer-mediated epitaxy 233 (2004) 123
- Akl, A.A., Optical properties of crystalline and non-crystalline iron oxide thin films deposited by spray pyrolysis 233 (2004) 307
- Ambrico, M., see Perna, G. 233 (2004) 366
- Anghel, C., E. Hörnlund, G. Hultquist and M. Limbäck, Gas phase analysis of CO interactions with solid surfaces at high temperatures 233 (2004) 392
- Apostolico, L., see Blackman, C.S. 233 (2004) 24
- Augelli, V., see Perna, G. 233 (2004) 366
- Aydin, I., Activation of wood surfaces for glue bonds by mechanical pre-treatment and its effects on some properties of veneer surfaces and plywood panels 233 (2004) 268
- Azimirad, R., see Akhavan, O. 233 (2004) 123
- Baek, I.K., see Lee, J.W. 233 (2004) 402
- Bao, Y.-J., see Cheng, J.-B. 233 (2004) 91
- Bathomarco, R.V., G. Solorzano, C.N. Elias and R. Prioli, Atomic force microscopy analysis of different surface treatments of Ti dental implant surfaces 233 (2004) 29
- Belkhou, R., see Flammini, R. 233 (2004) 411
- Bhattacharyya, D., A. Biswas and N.K. Sahoo, Investigation on dispersion of optical constants of Gd₂O₃ films by phase modulated spectroscopic ellipsometry 233 (2004) 155
- Biswas, A., see Bhattacharyya, D. 233 (2004) 155
- Blackman, C.S., C.J. Carmalt, T.D. Manning, I.P. Parkin, L. Apostolico and K.C. Molloy, Low temperature deposition of crystalline chromium phosphide films using dual-source atmospheric pressure chemical vapour deposition 233 (2004) 24
- Capozzi, V., see Perna, G. 233 (2004) 366
- Carmalt, C.J., see Blackman, C.S. 233 (2004) 24
- Chae, K.H., see Son, J.H. 233 (2004) 288
- Chan, K.C., see Hu, F. 233 (2004) 163
- Chang, C.H., see Park, M. 233 (2004) 213
- Chao, C.-G., see Tsai, T.-K. 233 (2004) 180
- Charters, R.B., see Li, W.T. 233 (2004) 227
- Chen, H., see Du, H. 233 (2004) 99
- Chen, J.-C., S.-R. Lin and W.-T. Tsai, Effects of oxidizing agent and hydrodynamic condition on copper dissolution in chemical mechanical polishing electrolytes 233 (2004) 80
- Chen, X., see Jia, R. 233 (2004) 343
- Cheng, J.-B., A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming, Growth and characteristics of La₂O₃ gate dielectric prepared by low pressure metalorganic chemical vapor deposition 233 (2004) 91
- Cho, G.S., see Lee, J.W. 233 (2004) 402
- Chowdhury, S., and M.T. Laugier, The use of non-contact AFM with nanoindentation techniques for measuring mechanical properties of carbon nitride thin films 233 (2004) 219
- Coyne, E., see Mannion, P.T. 233 (2004) 275
- Dinhut, J.F., see Pedraza, F. 233 (2004) 35
- Du, H., H. Chen, J. Gong, T.G. Wang, C. Sun, S.W. Lee and L.S. Wen, Use of effective medium theory to model the effect of the microstructure on dc conductivity of nanotitanium films 233 (2004) 99
- Elamrawi, K.A., see Hafez, M.A. 233 (2004) 42
- Elias, C.N., see Bathomarco, R.V. 233 (2004) 29
- Elsayed-Ali, H.E., see Hafez, M.A. 233 (2004) 42
- Erbudak, M., see Lüscher, R. 233 (2004) 129
- Feng, Y., see Ma, H. 233 (2004) 14
- Figueras, A., see Garcia, G. 233 (2004) 191
- Fisher, E.R., see McCurdy, P.R. 233 (2004) 69
- Flammini, R., F. Wiame, R. Belkhou and A. Taleb-Ibrahimi, Co/Si(1 1 1) and Co/Si(1 1 1)-H interfaces: a comparative core-level photoemission study 233 (2004) 411
- Flückiger, T., see Lüscher, R. 233 (2004) 129
- Friedman, B., see Park, M. 233 (2004) 213
- Garcia, G., J. Santiso, J.A. Pardo and A. Figueras, Epitaxial growth of YSZ films prepared by pulsed injection MOCVD 233 (2004) 191

- Glynn, T.J., see Mannion, P.T. 233 (2004) 275
- Gong, J., see Du, H. 233 (2004) 99
- Greene, G., and R. Tannenbaum, Adsorption of polyelectrolyte multilayers on plasma-modified porous polyethylene 233 (2004) 336
- Grevey, D., see Ignat, S. 233 (2004) 382
- Grosseau-Poussard, J.L., see Pedraza, F. 233 (2004) 35
- Gui, D., see Lu, D. 233 (2004) 352
- Guo, L., see Wang, Y. 233 (2004) 258
- Hafez, M.A., K.A. Elamrawi and H.E. Elsayed-Ali, Pulsed laser deposition of InP thin films on sapphire (1 0 0) and GaAs (1 0 0) 233 (2004) 42
- Han, Z., see Ma, H. 233 (2004) 14
- Hashemifar, S.J., see Akhavan, O. 233 (2004) 123
- Hiçiyilmaz, C., U. Ulusoy and M. Yekeler, Effects of the shape properties of talc and quartz particles on the wettability based separation processes 233 (2004) 204
- Hörlund, E., see Anghel, C. 233 (2004) 392
- Hou, Z., O. Yokota, T. Tanaka and T. Yashima, Surface properties of a coke-free Sn doped nickel catalyst for the CO₂ reforming of methane 233 (2004) 58
- Hu, F., and K.C. Chan, Electrocodeposition behavior of Ni-SiC composite under different shaped waveforms 233 (2004) 163
- Hu, J.H., see Wang, A.H. 233 (2004) 244
- Hu, Z., see Jia, R. 233 (2004) 343
- Hultquist, G., see Anghel, C. 233 (2004) 392
- Ignat, S., P. Sallamand, D. Grevey and M. Lambertin, Magnesium alloys (WE43 and ZE41) characterisation for laser applications 233 (2004) 382
- Jeon, M.H., see Lee, J.W. 233 (2004) 402
- Jia, R., Y. Shen, H. Luo, X. Chen, Z. Hu and D. Xue, Photoluminescence properties of morin and lysozyme molecules absorbed on anodic porous alumina membrane 233 (2004) 343
- Jiang, B., see Wang, Y. 233 (2004) 258
- Jiang, Z.-J., C.-Y. Liu and Y. Liu, Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution 233 (2004) 135
- Joo, M.K., see Park, M. 233 (2004) 213
- Karadeniz, S., N. Tuğluoğlu and T. Serin, Substrate temperature dependence of series resistance in Al/SnO₂/p-Si (111) Schottky diodes prepared by spray deposition method 233 (2004) 5
- Karadeniz, S., see Acar, S. 233 (2004) 373
- Karadeniz, S., see Tuğluoğlu, N. 233 (2004) 320
- Kasap, M., see Acar, S. 233 (2004) 373
- Khabbaz, M.G., see Papagiakoumou, E. 233 (2004) 234
- Kim, H.B., see Son, J.H. 233 (2004) 288
- Kim, H.G., see Ahn, S.H. 233 (2004) 105
- Kim, H.W., and N.H. Kim, Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition 233 (2004) 294
- Kim, J.G., see Ahn, S.H. 233 (2004) 105
- Kim, J.-y., see Park, M. 233 (2004) 213
- Kim, N.H., see Kim, H.W. 233 (2004) 294
- Kohli, S., see McCurdy, P.R. 233 (2004) 69
- Kruit, P., see Nijkerk, M.D. 233 (2004) 172
- Lambertin, M., see Ignat, S. 233 (2004) 382
- Laugier, M.T., see Chowdhury, S. 233 (2004) 219
- Lee, J.J., see Park, M. 233 (2004) 213
- Lee, J.H., see Ahn, S.H. 233 (2004) 105
- Lee, J.W., Y.T. Lim, I.K. Baek, S.Y. Yoo, G.S. Cho, M.H. Jeon, J.Y. Leem and S.J. Pearson, Comparison of planar inductively coupled plasma etching of GaAs in BCl₃, BCl₃/Ar, and BCl₃/Ne 233 (2004) 402
- Lee, K., see Park, M. 233 (2004) 213
- Lee, S.W., see Du, H. 233 (2004) 99
- Leem, J.Y., see Lee, J.W. 233 (2004) 402
- Lei, T., see Wang, Y. 233 (2004) 258
- Li, A.-D., see Cheng, J.-B. 233 (2004) 91
- Li, H., see Li, X. 233 (2004) 51
- Li, J., and N. Yuan, Temperature sensitivity of resistance of VO₂ polycrystalline films formed by modified ion beam enhanced deposition 233 (2004) 252
- Li, W.T., R.B. Charters, B. Luther-Davies and L. Mar, Significant improvement of adhesion between gold thin films and a polymer 233 (2004) 227
- Li, X., H. Li, J. Liu, X. Qi and X. Zeng, Conductive line preparation on resin surfaces by laser micro-cladding conductive pastes 233 (2004) 51
- Li, X.-L., see Xu, X.-H. 233 (2004) 1
- Li, Y., Q. Lu, X. Qian, Z. Zhu and J. Yin, Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition 233 (2004) 299
- Ligonzo, T., see Perna, G. 233 (2004) 366
- Lim, E., see Park, M. 233 (2004) 213
- Lim, Y.T., see Lee, J.W. 233 (2004) 402
- Limbäck, M., see Anghel, C. 233 (2004) 392
- Lin, S.-R., see Chen, J.-C. 233 (2004) 80
- Ling, H.-Q., see Cheng, J.-B. 233 (2004) 91
- Liu, C.-Y., see Jiang, Z.-J. 233 (2004) 135
- Liu, J., see Li, X. 233 (2004) 51
- Liu, Y., see Jiang, Z.-J. 233 (2004) 135
- Liu, Z.-G., see Cheng, J.-B. 233 (2004) 91
- Liu, Z.-J., and Y.G. Shen, Role of island corner rounding in the morphology transition of the submonolayers grown on metal (1 1 0) surfaces 233 (2004) 197
- Lu, D., Z.-Q. Mo, Z.-X. Xing and D. Gui, Analysis of amine contamination on silicon oxide surfaces using ToF-SIMS 233 (2004) 352
- Lu, Q., see Li, Y. 233 (2004) 299
- Luo, H., see Jia, R. 233 (2004) 343
- Lüscher, R., M. Erbudak, T. Flückiger and Y. Weisskopf, Absorption kinetics of thin Al films on quasicrystalline Al-Pd-Mn 233 (2004) 129

- Luther-Davies, B., see Li, W.T. 233 (2004) 227
- Ma, H., J. Peng, B. Zhou, Z. Han and Y. Feng, Luminescent multilayer film based on mixed-addenda polyoxometalates and polyethyleneimine by layer-by-layer assembly 233 (2004) 14
- Magee, J., see Mannion, P.T. 233 (2004) 275
- Makropoulou, M.I., see Papagiakoumou, E. 233 (2004) 234
- Manning, T.D., see Blackman, C.S. 233 (2004) 24
- Mannion, P.T., J. Magee, E. Coyne, G.M. O'Connor and T.J. Glynn, The effect of damage accumulation behaviour on ablation thresholds and damage morphology in ultrafast laser micro-machining of common metals in air 233 (2004) 275
- Mar, L., see Li, W.T. 233 (2004) 227
- McCurdy, P.R., L.J. Sturgess, S. Kohli and E.R. Fisher, Investigation of the PECVD TiO₂-Si(1 0 0) interface 233 (2004) 69
- Minafra, A., see Perna, G. 233 (2004) 366
- Ming, N.-B., see Cheng, J.-B. 233 (2004) 91
- Mo, Z.-Q., see Lu, D. 233 (2004) 352
- Molloy, K.C., see Blackman, C.S. 233 (2004) 24
- Moshfegh, A.Z., see Akhavan, O. 233 (2004) 123
- Nijkerk, M.D., and P. Kruit, Influence of surface roughness on space charge limited emission 233 (2004) 172
- O'Connor, G.M., see Mannion, P.T. 233 (2004) 275
- Pallara, M., see Perna, G. 233 (2004) 366
- Panczyk, T., and W. Rudzinski, Kinetics of dissociative hydrogen adsorption on the (1 0 0) nickel single crystal face: a statistical rate theory approach 233 (2004) 141
- Papadopoulos, D.N., see Papagiakoumou, E. 233 (2004) 234
- Papagiakoumou, E., D.N. Papadopoulos, M.G. Khabbaz, M.I. Makropoulou and A.A. Serafetinides, The influence of the Q-switched and free-running Er:YAG laser beam characteristics on the ablation of root canal dentine 233 (2004) 234
- Pardo, J.A., see Garcia, G. 233 (2004) 191
- Park, M., H. Yoo, S. Yun, E. Lim, K. Lee, C.H. Chang, M.K. Joo, I.J. Lee, J.-y. Kim and B. Friedman, Studies of surface resistance of copper(II) phthalocyanine thin films by using a near-field scanning microwave microscope 233 (2004) 213
- Parkin, I.P., see Blackman, C.S. 233 (2004) 24
- Pearson, S.J., see Lee, J.W. 233 (2004) 402
- Pécz, B., see Veisz, B. 233 (2004) 360
- Pedraza, F., J.L. Grosseau-Poussard and J.F. Dinhut, Nitridation effects on the oxidation mechanisms of an ods Fe-Al intermetallic alloy 233 (2004) 35
- Peng, J., see Ma, H. 233 (2004) 14
- Perna, G., V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara, Structural and optical characterization of Zn doped CdSe films 233 (2004) 366
- Prioli, R., see Bathomarco, R.V. 233 (2004) 29
- Qi, X., see Li, X. 233 (2004) 51
- Qian, X., see Li, Y. 233 (2004) 299
- Rudzinski, W., see Panczyk, T. 233 (2004) 141
- Şafak, H., see Tuğluoğlu, N. 233 (2004) 320
- Şahin, M., see Tuğluoğlu, N. 233 (2004) 320
- Sahoo, N.K., see Bhattacharyya, D. 233 (2004) 155
- Sallamand, P., see Ignat, S. 233 (2004) 382
- Santiso, J., see Garcia, G. 233 (2004) 191
- Schiavulli, L., see Perna, G. 233 (2004) 366
- Selçuk, A.B., see Acar, S. 233 (2004) 373
- Serafetinides, A.A., see Papagiakoumou, E. 233 (2004) 234
- Serin, T., see Karadeniz, S. 233 (2004) 5
- Shao, Q.-Y., see Cheng, J.-B. 233 (2004) 91
- Shen, Y., see Jia, R. 233 (2004) 343
- Shen, Y.G., see Liu, Z.-J. 233 (2004) 197
- Solorzano, G., see Bathomarco, R.V. 233 (2004) 29
- Son, J.H., H.B. Kim, C.N. Whang and K.H. Chae, The defect-related photoluminescence from Si ion-beam-mixed SiO₂/Si/SiO₂ films 233 (2004) 288
- Song, W.L., see Wang, A.H. 233 (2004) 244
- Soto, G., AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N₂, CH₄, O₂ and CO as reactive gases 233 (2004) 115
- Sturgess, L.J., see McCurdy, P.R. 233 (2004) 69
- Sun, C., see Du, H. 233 (2004) 99
- Sun, Y., Tribological rutile-TiO₂ coating on aluminium alloy 233 (2004) 328
- Taleb-Ibrahimi, A., see Flammini, R. 233 (2004) 411
- Tanaka, T., see Hou, Z. 233 (2004) 58
- Tannenbaum, R., see Greene, G. 233 (2004) 336
- Thong, J.T.L., see Yeong, K.S. 233 (2004) 20
- Tsai, T.-K., and C.-G. Chao, The growth morphology and crystallinity of electroless NiP deposition on silicon 233 (2004) 180
- Tsai, W.-T., see Chen, J.-C. 233 (2004) 80
- Tuğluoğlu, N., S. Karadeniz, M. Şahin and H. Şafak, Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes 233 (2004) 320
- Tuğluoğlu, N., see Acar, S. 233 (2004) 373
- Tuğluoğlu, N., see Karadeniz, S. 233 (2004) 5
- Ulusoy, U., see Hiçiyılmaz, C. 233 (2004) 204
- Veisz, B., and B. Pécz, Polarity dependent Al-Ti contacts to 6H-SiC 233 (2004) 360
- Wang, A.H., W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu, CO₂ laser-induced

- structure changes on an alumina-mullite-zirconia refractory 233 (2004) 244
- Wang, F., see Xu, X.-H. 233 (2004) 1
- Wang, M., see Cheng, J.-B. 233 (2004) 91
- Wang, T.G., see Du, H. 233 (2004) 99
- Wang, W.Y., see Wang, A.H. 233 (2004) 244
- Wang, Y., see Cheng, J.-B. 233 (2004) 91
- Wang, Y., T. Lei, B. Jiang and L. Guo, Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution 233 (2004) 258
- Weisskopf, Y., see Lüscher, R. 233 (2004) 129
- Wen, L.S., see Du, H. 233 (2004) 99
- Whang, C.N., see Son, J.H. 233 (2004) 288
- Wiame, F., see Flammini, R. 233 (2004) 411
- Wu, D., see Cheng, J.-B. 233 (2004) 91
- Wu, H.-S., see Xu, X.-H. 233 (2004) 1
- Xie, C.S., see Wang, A.H. 233 (2004) 244
- Xing, Z.-X., see Lu, D. 233 (2004) 352
- Xu, X.-H., H.-S. Wu, F. Wang and X.-L. Li, The effect of Ag and Cu underlayer on the Li_1O ordering FePt thin films 233 (2004) 1
- Xue, D., see Jia, R. 233 (2004) 343
- Yashima, T., see Hou, Z. 233 (2004) 58
- Yekeler, M., see Hıçyılmaz, C. 233 (2004) 204
- Yeong, K.S., and J.T.L. Thong, Effects of adsorbates on the field emission current from carbon nanotubes 233 (2004) 20
- Yin, J., see Li, Y. 233 (2004) 299
- Yokota, O., see Hou, Z. 233 (2004) 58
- Yoo, H., see Park, M. 233 (2004) 213
- Yoo, S.Y., see Lee, J.W. 233 (2004) 402
- Yuan, N., see Li, J. 233 (2004) 252
- Yun, S., see Park, M. 233 (2004) 213
- Zeng, D.W., see Wang, A.H. 233 (2004) 244
- Zeng, X., see Li, X. 233 (2004) 51
- Zhou, B., see Ma, H. 233 (2004) 14
- Zhu, Z., see Li, Y. 233 (2004) 299



ELSEVIER

Applied Surface Science 233 (2004) V–XVI

applied
surface science

www.elsevier.com/locate/apsusc

Subject Index

Ablation

- The effect of damage accumulation behaviour on ablation thresholds and damage morphology in ultrafast laser micro-machining of common metals in air, P.T. Mannion, J. Magee, E. Coyne, G.M. O'Connor and T.J. Glynn 233 (2004) 275

Alloys

- Nitridation effects on the oxidation mechanisms of an Fe–Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258

Aluminium

- Nitridation effects on the oxidation mechanisms of an Fe–Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- Absorption kinetics of thin Al films on quasi-crystalline Al–Pd–Mn, R. Lüscher, M. Erbudak, T. Flückiger and Y. Weisskopf 233 (2004) 129
- CO₂ laser-induced structure changes on an alumina–mullite–zirconia refractory, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu 233 (2004) 244
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258
- Tribological rutile–TiO₂ coating on aluminium alloy, Y. Sun 233 (2004) 328
- Polarity dependent Al–Ti contacts to 6H–SiC, B. Veisz and B. Pécz 233 (2004) 360

Aluminium oxide

- Pulsed laser deposition of InP thin films on sapphire(1000) and GaAs(100), M.A.

- Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42

- Photoluminescence properties of morin and lysozyme molecules absorbed on anodic porous alumina membrane, R. Jia, Y. Shen, H. Luo, X. Chen, Z. Hu and D. Xue 233 (2004) 343

Annealing

- The effect of Ag and Cu underlayer on the L1₀ ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1
- Investigation of the PECVD TiO₂–Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69

Atomic force microscopy

- Luminescent multilayer film based on mixed-addenda polyoxometalates and polyethyleneimine by layer-by-layer assembly, H. Ma, J. Peng, B. Zhou, Z. Han and Y. Feng 233 (2004) 14
- Atomic force microscopy analysis of different surface treatments of Ti dental implant surfaces, R.V. Bathomarcio, G. Solorzano, C.N. Elias and R. Prioli 233 (2004) 29
- Pulsed laser deposition of InP thin films on sapphire(1000) and GaAs(100), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- Growth and characteristics of La₂O₃ gate dielectric prepared by low pressure metalorganic chemical vapor deposition, J.-B. Cheng, A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming 233 (2004) 91
- Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras 233 (2004) 191
- The use of non-contact AFM with nanoindentation techniques for measuring mechanical properties of carbon nitride thin films, S. Chowdhury and M.T. Laugier 233 (2004) 219
- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless

- metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299
- Auger electron spectroscopy**
- Investigation of the PECVD TiO_2 -Si(1 0 0) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115
- Absorption kinetics of thin Al films on quasi-crystalline Al-Pd-Mn, R. Lüscher, M. Erbudak, T. Flückiger and Y. Weisskopf 233 (2004) 129
- Biological materials**
- The influence of the Q-switched and free-running Er:YAG laser beam characteristics on the ablation of root canal dentine, E. Papagiakoumou, D.N. Papadopoulos, M.G. Khabbaz, M.I. Makropoulou and A.A. Serafetinides 233 (2004) 234
- Activation of wood surfaces for glue bonds by mechanical pre-treatment and its effects on some properties of veneer surfaces and plywood panels, I. Aydın 233 (2004) 268
- Photoluminescence properties of morin and lysozyme molecules absorbed on anodic porous alumina membrane, R. Jia, Y. Shen, H. Luo, X. Chen, Z. Hu and D. Xue 233 (2004) 343
- Cadmium**
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366
- Carbides**
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- Carbon**
- Effects of adsorbates on the field emission current from carbon nanotubes, K.S. Yeong and J.T.L. Thong 233 (2004) 20
- The use of non-contact AFM with nanoindentation techniques for measuring mechanical properties of carbon nitride thin films, S. Chowdhury and M.T. Laugier 233 (2004) 219
- Carbon dioxide**
- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- Carbon monoxide**
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115
- Gas phase analysis of CO interactions with solid surfaces at high temperatures, C. Anghel, E. Hörnlund, G. Hultquist and M. Limbäck 233 (2004) 392
- Corrosion**
- Tribological rutile- TiO_2 coating on aluminium alloy, Y. Sun 233 (2004) 328
- Catalysis**
- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- Cathodes**
- Influence of surface roughness on space charge limited emission, M.D. Nijkerk and P. Kruit 233 (2004) 172
- Chemical vapour deposition**
- Investigation of the PECVD TiO_2 -Si(1 0 0) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Chromium**
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- Gas phase analysis of CO interactions with solid surfaces at high temperatures, C. Anghel, E. Hörnlund, G. Hultquist and M. Limbäck 233 (2004) 392
- Cobalt**
- Single-crystalline growth of CoSi_2 by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad 233 (2004) 123

- Co/Si(1 1 1) and Co/Si(1 1 1)-H interfaces: a comparative core-level photoemission study, R. Flammini, F. Wiame, R. Belkhou and A. Taleb-Ibrahimi 233 (2004) 411
- Copper**
- The effect of Ag and Cu underlayer on the L1₀ ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1
- Effects of oxidizing agent and hydrodynamic condition on copper dissolution in chemical mechanical polishing electrolytes, J.-C. Chen, S.-R. Lin and W.-T. Tsai 233 (2004) 80
- Studies of surface resistance of copper(II) phthalocyanine thin films by using a near-field scanning microwave microscope, M. Park, H. Yoo, S. Yun, E. Lim, K. Lee, C.H. Chang, M.K. Joo, I.J. Lee, J.-y. Kim and B. Friedman 233 (2004) 213
- Depth profiling**
- Investigation of the PECVD TiO₂-Si(1 0 0) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Doping effects**
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366
- Electrical properties**
- Effects of adsorbates on the field emission current from carbon nanotubes, K.S. Yeong and J.T.L. Thong 233 (2004) 20
- Use of effective medium theory to model the effect of the microstructure on dc conductivity of nano-titanium films, H. Du, H. Chen, J. Gong, T.G. Wang, C. Sun, S.W. Lee and L.S. Wen 233 (2004) 99
- Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes, N. Tuğluoğlu, S. Karadeniz, M. Şahin and H. Şafak 233 (2004) 320
- Gaussian distribution of inhomogeneous barrier height in Ag/p-Si(1 0 0) Schottky barrier diodes, S. Acar, S. Karadeniz, N. Tuğluoğlu, A.B. Selçuk and M. Kasap 233 (2004) 373
- Electron diffraction**
- Pulsed laser deposition of InP thin films on sapphire(1 0 0) and GaAs(1 0 0), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- Polarity dependent Al-Ti contacts to 6H-SiC, B. Veisz and B. Pécz 233 (2004) 360
- Electron energy loss spectroscopy**
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N₂, CH₄, O₂ and CO as reactive gases, G. Soto 233 (2004) 115
- Electron microscopy**
- Effects of adsorbates on the field emission current from carbon nanotubes, K.S. Yeong and J.T.L. Thong 233 (2004) 20
- Nitridation effects on the oxidation mechanisms of an ods Fe-Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- Pulsed laser deposition of InP thin films on sapphire(1 0 0) and GaAs(1 0 0), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- Surface properties of a coke-free Sn doped nickel catalyst for the CO₂ reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- Investigation of the PECVD TiO₂-Si(1 0 0) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- Single-crystalline growth of CoSi₂ by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad 233 (2004) 123
- Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution, Z.-J. Jiang, C.-Y. Liu and Y. Liu 233 (2004) 135
- Electrocodeposition behavior of Ni-SiC composite under different shaped waveforms, F. Hu and K.C. Chan 233 (2004) 163
- The growth morphology and crystallinity of electroless NiP deposition on silicon, T.-K. Tsai and C.-G. Chao 233 (2004) 180
- Effects of the shape properties of talc and quartz particles on the wettability based separation processes, C. Hıçılmaz, U. Ulusoy and M. Yekeler 233 (2004) 204
- Significant improvement of adhesion between gold thin films and a polymer, W.T. Li, R.B. Charters, B. Luther-Davies and L. Mar 233 (2004) 227
- The influence of the Q-switched and free-running Er:YAG laser beam characteristics on the ablation of root canal dentine, E. Papagiakoumou, D.N. Papadopoulos, M.G. Khabbaz, M.I. Makropoulou and A.A. Serafetinides 233 (2004) 234

- CO₂ laser-induced structure changes on an alumina-mullite-zirconia refractory, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu 233 (2004) 244
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258
- The effect of damage accumulation behaviour on ablation thresholds and damage morphology in ultrafast laser micro-machining of common metals in air, P.T. Mannion, J. Magee, E. Coyne, G.M. O'Connor and T.J. Glynn 233 (2004) 275
- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294
- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299
- Tribological rutile-TiO₂ coating on aluminium alloy, Y. Sun 233 (2004) 328
- Photoluminescence properties of morin and lysozyme molecules absorbed on anodic porous alumina membrane, R. Jia, Y. Shen, H. Luo, X. Chen, Z. Hu and D. Xue 233 (2004) 343
- Polarity dependent Al-Ti contacts to 6H-SiC, B. Veisz and B. Pécz 233 (2004) 360
- Magnesium alloys (WE43 and ZE41) characterisation for laser applications, S. Ignat, P. Sallamand, D. Grevey and M. Lambertin 233 (2004) 382
- Comparison of planar inductively coupled plasma etching of GaAs in BCl₃, BCl₃/Ar, and BCl₃/Ne, J.W. Lee, Y.T. Lim, I.K. Baek, S.Y. Yoo, G.S. Cho, M.H. Jeoin, J.Y. Leem and S.J. Pearton 233 (2004) 402
- Ellipsometry**
- Investigation on dispersion of optical constants of Gd₂O₃ films by phase modulated spectroscopic ellipsometry, D. Bhattacharyya, A. Biswas and N.K. Sahoo 233 (2004) 155
- Epitaxy**
- Pulsed laser deposition of InP thin films on sapphire(1 0 0 0) and GaAs(1 0 0), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- Single-crystalline growth of CoSi₂ by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimrad 233 (2004) 123
- Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras 233 (2004) 191
- Etching**
- Comparison of planar inductively coupled plasma etching of GaAs in BCl₃, BCl₃/Ar, and BCl₃/Ne, J.W. Lee, Y.T. Lim, I.K. Baek, S.Y. Yoo, G.S. Cho, M.H. Jeoin, J.Y. Leem and S.J. Pearton 233 (2004) 402
- Evaporation**
- Investigation on dispersion of optical constants of Gd₂O₃ films by phase modulated spectroscopic ellipsometry, D. Bhattacharyya, A. Biswas and N.K. Sahoo 233 (2004) 155
- Field emission**
- Effects of adsorbates on the field emission current from carbon nanotubes, K.S. Yeong and J.T.L. Thong 233 (2004) 20
- Gadolinium**
- Investigation on dispersion of optical constants of Gd₂O₃ films by phase modulated spectroscopic ellipsometry, D. Bhattacharyya, A. Biswas and N.K. Sahoo 233 (2004) 155
- Gallium**
- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294
- Gallium arsenide**
- Pulsed laser deposition of InP thin films on sapphire(1 0 0 0) and GaAs(1 0 0), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- Comparison of planar inductively coupled plasma etching of GaAs in BCl₃, BCl₃/Ar, and BCl₃/Ne, J.W. Lee, Y.T. Lim, I.K. Baek, S.Y. Yoo, G.S. Cho, M.H. Jeoin, J.Y. Leem and S.J. Pearton 233 (2004) 402
- Gold**
- Significant improvement of adhesion between gold thin films and a polymer, W.T. Li, R.B. Charters, B. Luther-Davies and L. Mar 233 (2004) 227

Hydrogen

- Kinetics of dissociative hydrogen adsorption on the (100) nickel single crystal face: a statistical rate theory approach, T. Panczyk and W. Rudzinski 233 (2004) 141
- Co/Si(111) and Co/Si(111)-H interfaces: a comparative core-level photoemission study, R. Flammini, F. Wiame, R. Belkhou and A. Taleb-Ibrahimi 233 (2004) 411

Indium phosphide

- Pulsed laser deposition of InP thin films on sapphire(1000) and GaAs(100), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42

Infrared spectroscopy

- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299
- Photoluminescence properties of morin and lysozyme molecules absorbed on anodic porous alumina membrane, R. Jia, Y. Shen, H. Luo, X. Chen, Z. Hu and D. Xue 233 (2004) 343

Interfaces

- Investigation of the PECVD TiO₂-Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Absorption kinetics of thin Al films on quasi-crystalline Al-Pd-Mn, R. Lüscher, M. Erbudak, T. Flückiger and Y. Weisskopf 233 (2004) 129
- Co/Si(111) and Co/Si(111)-H interfaces: a comparative core-level photoemission study, R. Flammini, F. Wiame, R. Belkhou and A. Taleb-Ibrahimi 233 (2004) 411

Ion bombardment

- Temperature sensitivity of resistance of VO₂ polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252

Iron

- The effect of Ag and Cu underlayer on the LI₀ ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1

- Nitridation effects on the oxidation mechanisms of an Fe-Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- Effects of oxidizing agent and hydrodynamic condition on copper dissolution in chemical mechanical polishing electrolytes, J.-C. Chen, S.-R. Lin and W.-T. Tsai 233 (2004) 80
- Optical properties of crystalline and non-crystalline iron oxide thin films deposited by spray pyrolysis, A.A. Akl 233 (2004) 307

Lanthanum

- Growth and characteristics of La₂O₃ gate dielectric prepared by low pressure metalorganic chemical vapor deposition, J.-B. Cheng, A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming 233 (2004) 91

Laser processing

- Conductive line preparation on resin surfaces by laser micro-cladding conductive pastes, X. Li, H. Li, J. Liu, X. Qi and X. Zeng 233 (2004) 51
- The influence of the Q-switched and free-running Er:YAG laser beam characteristics on the ablation of root canal dentine, E. Papa-kiakoumou, D.N. Papadopoulos, M.G. Khabbaz, M.I. Makropoulou and A.A. Serafetinides 233 (2004) 234
- CO₂ laser-induced structure changes on an alumina-mullite-zirconia refractory, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu 233 (2004) 244
- Magnesium alloys (WE43 and ZE41) characterisation for laser applications, S. Ignat, P. Sallamand, D. Grevey and M. Lambertin 233 (2004) 382

Luminescence

- Luminescent multilayer film based on mixed-addenda polyoxometalates and polyethyleneimine by layer-by-layer assembly, H. Ma, J. Peng, B. Zhou, Z. Han and Y. Feng 233 (2004) 14
- Photoluminescence properties of morin and lysozyme molecules absorbed on anodic porous alumina membrane, R. Jia, Y. Shen, H. Luo, X. Chen, Z. Hu and D. Xue 233 (2004) 343
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366

Magnesium

- Magnesium alloys (WE43 and ZE41) characterisation for laser applications, S. Ignat, P. Sallamand, D. Grevey and M. Lambertin 233 (2004) 382

Magnetic measurements

- The effect of Ag and Cu underlayer on the Li_2O ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1

Manganese

- Absorption kinetics of thin Al films on quasi-crystalline Al-Pd-Mn, R. Lüscher, M. Erbudak, T. Flückiger and Y. Weisskopf 233 (2004) 129

Mass spectroscopy

- Gas phase analysis of CO interactions with solid surfaces at high temperatures, C. Anghel, E. Hörmund, G. Hultquist and M. Limbäck 233 (2004) 392

Methane

- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115

Monte carlo simulations

- Role of island corner rounding in the morphology transition of the submonolayers grown on metal (110) surfaces, Z.-J. Liu and Y.G. Shen 233 (2004) 197

Multilayers

- Luminescent multilayer film based on mixed-addenda polyoxometalates and polyethyleneimine by layer-by-layer assembly, H. Ma, J. Peng, B. Zhou, Z. Han and Y. Feng 233 (2004) 14
- Adsorption of polyelectrolyte multilayers on plasma-modified porous polyethylene, G. Greene and R. Tannenbaum 233 (2004) 336

Nanostructures

- Effects of adsorbates on the field emission current from carbon nanotubes, K.S. Yeong and J.T.L. Thong 233 (2004) 20
- Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution, Z.-J. Jiang, C.-Y. Liu and Y. Liu 233 (2004) 135

- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294

- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299

Nickel

- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- Kinetics of dissociative hydrogen adsorption on the (100) nickel single crystal face: a statistical rate theory approach, T. Panczyk and W. Rudzinski 233 (2004) 141
- Electrocodeposition behavior of Ni-SiC composite under different shaped waveforms, F. Hu and K.C. Chan 233 (2004) 163
- The growth morphology and crystallinity of electroless NiP deposition on silicon, T.-K. Tsai and C.-G. Chao 233 (2004) 180

Nitrides

- Nitridation effects on the oxidation mechanisms of an Fe-Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- The use of non-contact AFM with nanoindentation techniques for measuring mechanical properties of carbon nitride thin films, S. Chowdhury and M.T. Laugier 233 (2004) 219

Nitrogen

- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115

Optical properties

- Studies of surface resistance of copper(II) phthalocyanine thin films by using a near-field scanning microwave microscope, M. Park, H. Yoo, S. Yun, E. Lim, K. Lee, C.H. Chang, M.K. Joo, I.J. Lee, J.-y. Kim and B. Friedman 233 (2004) 213

- Optical properties of crystalline and non-crystalline iron oxide thin films deposited by spray pyrolysis, A.A. Akl 233 (2004) 307
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366
- Organic metallic vapour deposition*
- Growth and characteristics of La_2O_3 gate dielectric prepared by low pressure metalorganic chemical vapor deposition, J.-B. Cheng, A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming 233 (2004) 91
- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294
- Organic metallic vapour deposition*
- Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras 233 (2004) 191
- Oxidation*
- Nitridation effects on the oxidation mechanisms of an Fe-Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- Effects of oxidizing agent and hydrodynamic condition on copper dissolution in chemical mechanical polishing electrolytes, J.-C. Chen, S.-R. Lin and W.-T. Tsai 233 (2004) 80
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258
- Oxides*
- Growth and characteristics of La_2O_3 gate dielectric prepared by low pressure metalorganic chemical vapor deposition, J.-B. Cheng, A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming 233 (2004) 91
- Investigation on dispersion of optical constants of Gd_2O_3 films by phase modulated spectroscopic ellipsometry, D. Bhattacharyya, A. Biswas and N.K. Sahoo 233 (2004) 155
- Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras 233 (2004) 191
- CO_2 laser-induced structure changes on an alumina-mullite-zirconia refractory, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu 233 (2004) 244
- Temperature sensitivity of resistance of VO_2 polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252
- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294
- Optical properties of crystalline and non-crystalline iron oxide thin films deposited by spray pyrolysis, A.A. Akl 233 (2004) 307
- Oxygen*
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115
- Palladium*
- Absorption kinetics of thin Al films on quasi-crystalline Al-Pd-Mn, R. Lüscher, M. Erbudak, T. Flückiger and Y. Weisskopf 233 (2004) 129
- Phosphorus*
- The growth morphology and crystallinity of electroless NiP deposition on silicon, T.-K. Tsai and C.-G. Chao 233 (2004) 180
- Photoelectron spectroscopy*
- Luminescent multilayer film based on mixed-addenda polyoxometalates and polyethylenimine by layer-by-layer assembly, H. Ma, J. Peng, B. Zhou, Z. Han and Y. Feng 233 (2004) 14
- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- Investigation of the PECVD TiO_2 -Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Growth and characteristics of La_2O_3 gate dielectric prepared by low pressure metalorganic chemical vapor deposition, J.-B. Cheng, A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming 233 (2004) 91

- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N₂, CH₄, O₂ and CO as reactive gases, G. Soto 233 (2004) 115
- Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution, Z.-J. Jiang, C.-Y. Liu and Y. Liu 233 (2004) 135
- Comparison of planar inductively coupled plasma etching of GaAs in BCl₃, BCl₃/Ar, and BCl₃/Ne, J.W. Lee, Y.T. Lim, I.K. Baek, S.Y. Yoo, G.S. Cho, M.H. Jeon, J.Y. Leem and S.J. Pearton 233 (2004) 402
- Co/Si(111) and Co/Si(111)-H interfaces: a comparative core-level photoemission study, R. Flammini, F. Wiame, R. Belkhou and A. Taleb-Ibrahimi 233 (2004) 411
- Plasma*
- Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution, Z.-J. Jiang, C.-Y. Liu and Y. Liu 233 (2004) 135
- Plasma processing*
- Investigation of the PECVD TiO₂-Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Significant improvement of adhesion between gold thin films and a polymer, W.T. Li, R.B. Charters, B. Luther-Davies and L. Mar 233 (2004) 227
- The effect of damage accumulation behaviour on ablation thresholds and damage morphology in ultrafast laser micro-machining of common metals in air, P.T. Mannion, J. Magee, E. Coyne, G.M. O'Connor and T.J. Glynn 233 (2004) 275
- Adsorption of polyelectrolyte multilayers on plasma-modified porous polyethylene, G. Greene and R. Tannenbaum 233 (2004) 336
- Comparison of planar inductively coupled plasma etching of GaAs in BCl₃, BCl₃/Ar, and BCl₃/Ne, J.W. Lee, Y.T. Lim, I.K. Baek, S.Y. Yoo, G.S. Cho, M.H. Jeon, J.Y. Leem and S.J. Pearton 233 (2004) 402
- Platinum*
- The effect of Ag and Cu underlayer on the L1₀ ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1
- Polymers*
- Luminescent multilayer film based on mixed-addenda polyoxometalates and polyethylenimine by layer-by-layer assembly, H. Ma, J. Peng, B. Zhou, Z. Han and Y. Feng 233 (2004) 14
- Significant improvement of adhesion between gold thin films and a polymer, W.T. Li, R.B. Charters, B. Luther-Davies and L. Mar 233 (2004) 227
- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299
- Adsorption of polyelectrolyte multilayers on plasma-modified porous polyethylene, G. Greene and R. Tannenbaum 233 (2004) 336
- Pulsed laser deposition*
- Pulsed laser deposition of InP thin films on sapphire(100) and GaAs(100), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N₂, CH₄, O₂ and CO as reactive gases, G. Soto 233 (2004) 115
- Raman scattering*
- Temperature sensitivity of resistance of VO₂ polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366
- Scanning probe microscopy*
- Studies of surface resistance of copper(II) phthalocyanine thin films by using a near-field scanning microwave microscope, M. Park, H. Yoo, S. Yun, E. Lim, K. Lee, C.H. Chang, M.K. Joo, I.J. Lee, J.-y. Kim and B. Friedman 233 (2004) 213
- Schottky barriers*
- Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes, N. Tuğluoğlu, S. Karadeniz, M. Şahin and H. Şafak 233 (2004) 320
- Gaussian distribution of inhomogeneous barrier height in Ag/p-Si(100) Schottky barrier diodes, S. Acar, S. Karadeniz, N. Tuğluoğlu, A.B. Selçuk and M. Kasap 233 (2004) 373
- Selenium*
- Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes, N. Tuğluoğlu, S. Karadeniz, M. Şahin and H. Şafak 233 (2004) 320

- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366
- Silicides**
- Single-crystalline growth of CoSi_2 by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad 233 (2004) 123
- Silicon**
- Investigation of the PECVD TiO_2 -Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299
- Gaussian distribution of inhomogeneous barrier height in Ag/p-Si (100) Schottky barrier diodes, S. Acar, S. Karadeniz, N. Tuğluoğlu, A.B. Selçuk and M. Kasap 233 (2004) 373
- Co/Si(111) and Co/Si(111)-H interfaces: a comparative core-level photoemission study, R. Flammini, F. Wiame, R. Belkhou and A. Taleb-Ibrahimi 233 (2004) 411
- Silicon carbide**
- Electrocodeposition behavior of Ni-SiC composite under different shaped waveforms, F. Hu and K.C. Chan 233 (2004) 163
- Polarity dependent Al-Ti contacts to 6H-SiC, B. Veisz and B. Pécz 233 (2004) 360
- Silicon oxide**
- Effects of the shape properties of talc and quartz particles on the wettability based separation processes, C. Hiçilalmaz, U. Ulusoy and M. Yekeler 233 (2004) 204
- Analysis of amine contamination on silicon oxide surfaces using ToF-SIMS, D. Lu, Z.-Q. Mo, Z.-X. Xing and D. Gui 233 (2004) 352
- Silver**
- The effect of Ag and Cu underlayer on the Li_2O ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1
- Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution, Z.-J. Jiang, C.-Y. Liu and Y. Liu 233 (2004) 135
- Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes, N. Tuğluoğlu, S. Karadeniz, M. Şahin and H. Şafak 233 (2004) 320
- Gaussian distribution of inhomogeneous barrier height in Ag/p-Si (100) Schottky barrier diodes, S. Acar, S. Karadeniz, N. Tuğluoğlu, A.B. Selçuk and M. Kasap 233 (2004) 373
- SIMS**
- Analysis of amine contamination on silicon oxide surfaces using ToF-SIMS, D. Lu, Z.-Q. Mo, Z.-X. Xing and D. Gui 233 (2004) 352
- Gas phase analysis of CO interactions with solid surfaces at high temperatures, C. Anghel, E. Hönlund, G. Hultquist and M. Limbäck 233 (2004) 392
- Sputter deposition**
- Use of effective medium theory to model the effect of the microstructure on dc conductivity of nano-titanium films, H. Du, H. Chen, J. Gong, T.G. Wang, C. Sun, S.W. Lee and L.S. Wen 233 (2004) 99
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- Temperature sensitivity of resistance of VO_2 polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252
- Tribological rutile- TiO_2 coating on aluminium alloy, Y. Sun 233 (2004) 328
- Sputtering**
- Investigation of the PECVD TiO_2 -Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Steel**
- The effect of damage accumulation behaviour on ablation thresholds and damage morphology in ultrafast laser micro-machining of common metals in air, P.T. Mannion, J. Magee, E. Coyne, G.M. O'Connor and T.J. Glynn 233 (2004) 275
- Surface roughness**
- Influence of surface roughness on space charge limited emission, M.D. Nijkerk and P. Kruit 233 (2004) 172

Tantalum

- Single-crystalline growth of CoSi_2 by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad 233 (2004) 123
- The effect of damage accumulation behaviour on ablation thresholds and damage morphology in ultrafast laser micro-machining of common metals in air, P.T. Mannion, J. Magee, E. Coyne, G.M. O'Connor and T.J. Glynn 233 (2004) 275

Thermal desorption

- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58

Thermionic emission

- Influence of surface roughness on space charge limited emission, M.D. Nijkerk and P. Kruit 233 (2004) 172

Thin films

- Pulsed laser deposition of InP thin films on sapphire(1000) and GaAs(100), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- Investigation of the PECVD TiO_2 -Si(100) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Growth and characteristics of La_2O_3 gate dielectric prepared by low pressure metal-organic chemical vapor deposition, J.-B. Cheng, A.-D. Li, Q.-Y. Shao, H.-Q. Ling, D. Wu, Y. Wang, Y.-J. Bao, M. Wang, Z.-G. Liu and N.-B. Ming 233 (2004) 91
- Use of effective medium theory to model the effect of the microstructure on dc conductivity of nano-titanium films, H. Du, H. Chen, J. Gong, T.G. Wang, C. Sun, S.W. Lee and L.S. Wen 233 (2004) 99
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115
- Absorption kinetics of thin Al films on quasi-crystalline Al-Pd-Mn, R. Lüscher, M. Erbudak, T. Flückiger and Y. Weisskopf 233 (2004) 129

- Investigation on dispersion of optical constants of Gd_2O_3 films by phase modulated spectroscopic ellipsometry, D. Bhattacharyya, A. Biswas and N.K. Sahoo 233 (2004) 155
- Role of island corner rounding in the morphology transition of the submonolayers grown on metal(110) surfaces, Z.-J. Liu and Y.G. Shen 233 (2004) 197
- The use of non-contact AFM with nanoindentation techniques for measuring mechanical properties of carbon nitride thin films, S. Chowdhury and M.T. Laugier 233 (2004) 219
- Significant improvement of adhesion between gold thin films and a polymer, W.T. Li, R.B. Charters, B. Luther-Davies and L. Mar 233 (2004) 227
- Temperature sensitivity of resistance of VO_2 polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252
- Tribological rutile- TiO_2 coating on aluminium alloy, Y. Sun 233 (2004) 328
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366

Tin

- Surface properties of a coke-free Sn doped nickel catalyst for the CO_2 reforming of methane, Z. Hou, O. Yokota, T. Tanaka and T. Yashima 233 (2004) 58
- Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes, N. Tuğluoğlu, S. Karadeniz, M. Şahin and H. Şafak 233 (2004) 320

Titanium

- Atomic force microscopy analysis of different surface treatments of Ti dental implant surfaces, R.V. Bathomarco, G. Solorzano, C.N. Elias and R. Prioli 233 (2004) 29
- Use of effective medium theory to model the effect of the microstructure on dc conductivity of nano-titanium films, H. Du, H. Chen, J. Gong, T.G. Wang, C. Sun, S.W. Lee and L.S. Wen 233 (2004) 99
- AES, EELS and XPS characterization of Ti (C, N, O) films prepared by PLD using a Ti target in N_2 , CH_4 , O_2 and CO as reactive gases, G. Soto 233 (2004) 115
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258

- Polarity dependent Al-Ti contacts to 6H-SiC, B. Veisz and B. Pécz 233 (2004) 360
- Titanium oxide**
- Investigation of the PECVD TiO₂-Si(1 0 0) interface, P.R. McCurdy, L.J. Sturgess, S. Kohli and E.R. Fisher 233 (2004) 69
- Tribological rutile-TiO₂ coating on aluminium alloy, Y. Sun 233 (2004) 328
- TOF techniques**
- Analysis of amine contamination on silicon oxide surfaces using ToF-SIMS, D. Lu, Z.-Q. Mo, Z.-X. Xing and D. Gui 233 (2004) 352
- Tungsten**
- A study on the quantitative determination of through-coating porosity in PVD-grown coatings, S.H. Ahn, J.H. Lee, H.G. Kim and J.G. Kim 233 (2004) 105
- Single-crystalline growth of CoSi₂ by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad 233 (2004) 123
- Vanadium**
- Temperature sensitivity of resistance of VO₂ polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258
- X-ray diffraction**
- The effect of Ag and Cu underlayer on the L1₀ ordering FePt thin films, X.-H. Xu, H.-S. Wu, F. Wang and X.-L. Li 233 (2004) 1
- Single-crystalline growth of CoSi₂ by refractory-interlayer-mediated epitaxy, O. Akhavan, A.Z. Moshfegh, S.J. Hashemifar and R. Azimirad 233 (2004) 123
- Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras 233 (2004) 191
- Effects of the shape properties of talc and quartz particles on the wettability based separation processes, C. Hiçilimaz, U. Ulusoy and M. Yekeler 233 (2004) 204
- Studies of surface resistance of copper(II) phthalocyanine thin films by using a near-field scanning microwave microscope, M. Park, H. Yoo, S. Yun, E. Lim, K. Lee, C.H. Chang, M.K. Joo, I.J. Lee, J.-y. Kim and B. Friedman 233 (2004) 213
- CO₂ laser-induced structure changes on an alumina-mullite-zirconia refractory, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu 233 (2004) 244
- Temperature sensitivity of resistance of VO₂ polycrystalline films formed by modified ion beam enhanced deposition, J. Li and N. Yuan 233 (2004) 252
- Growth, microstructure and mechanical properties of microarc oxidation coatings on titanium alloy in phosphate-containing solution, Y. Wang, T. Lei, B. Jiang and L. Guo 233 (2004) 258
- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294
- Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin 233 (2004) 299
- Optical properties of crystalline and non-crystalline iron oxide thin films deposited by spray pyrolysis, A.A. Akl 233 (2004) 307
- Tribological rutile-TiO₂ coating on aluminium alloy, Y. Sun 233 (2004) 328
- Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M. Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara 233 (2004) 366
- X-ray spectroscopy**
- Nitridation effects on the oxidation mechanisms of an Fe-Al intermetallic alloy, F. Pedraza, J.L. Grosseau-Poussard and J.F. Dinhut 233 (2004) 35
- Pulsed laser deposition of InP thin films on sapphire(1 0 0 0) and GaAs(1 0 0), M.A. Hafez, K.A. Elamrawi and H.E. Elsayed-Ali 233 (2004) 42
- The growth morphology and crystallinity of electroless NiP deposition on silicon, T.-K. Tsai and C.-G. Chao 233 (2004) 180
- Significant improvement of adhesion between gold thin films and a polymer, W.T. Li, R.B. Charters, B. Luther-Davies and L. Mar 233 (2004) 227
- Formation of amorphous and crystalline gallium oxide nanowires by metalorganic chemical vapor deposition, H.W. Kim and N.H. Kim 233 (2004) 294

Preparation of surface bound silver nanoparticles on polyimide by surface modification method and its application on electroless metal deposition, Y. Li, Q. Lu, X. Qian, Z. Zhu and J. Yin

233 (2004) 299

Yttrium

Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras

233 (2004) 191

Zinc

Structural and optical characterization of Zn doped CdSe films, G. Perna, V. Capozzi, M.

Ambrico, V. Augelli, T. Ligonzo, A. Minafra, L. Schiavulli and M. Pallara

233 (2004) 366

Zirconium

Epitaxial growth of YSZ films prepared by pulsed injection MOCVD, G. Garcia, J. Santiso, J.A. Pardo and A. Figueras

233 (2004) 191

CO₂ laser-induced structure changes on an alumina-mullite-zirconia refractory, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song, D.W. Zeng and J.H. Hu

233 (2004) 244

Gas phase analysis of CO interactions with solid surfaces at high temperatures, C. Anghel, E. Hörnlund, G. Hultquist and M. Limbäck

233 (2004) 392

